DENISOV, V.A., Cand Tech Sci — (diss)"Analysis of the possibility and expediency of rating for transformers in the electric
drive of poverful strippid excavators." Nos, 1959. 22 pp
(Min of Migher Education USSR. Mos Mining Inst in I.V. Stalin),
150 copies (KL, 29-59, 128)

-35-

DENISOV, V. A., Cand Tech Sci -- "Substitution"

designing the longitudinal future of railroads." Mos. 1961.

(Min of Transport USSR. All-Union Sci Res Inst of Transport) (KL, 8-61, 242)

- 222 -

## "APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310120017-6

DENISOV, V.A., insh.

Efficient profile for a railroad track. Transp. stroi. 11 no.10:

41-43 0 61.

(Railroads-Track)

DENISOV, V.A., inzh.

Results of a study of longitudinal dynamics of trains on break-in grades. Vest. TSNII MPS 20 no.4:25-27 '61. (MIRA 14:7) (Railroads--Trains--Dynamics)

PETROV, M.A.; NORMAN, E.A.; VOLODIN, A.P.; DENISOV, V.A.;
KOCHKONOCOV, V.P.; BEGAM, L.G.; BARANOV, M.A.; TAVLINOV,
V.K.; YENIKEYEV, G.Sh.; BARANOVA, A.I.; KUDRYAVTSEV,
G.P.; MALYAVSKIY, B.K.; CHEGODAYEV, N.N.; SURIN, V.S.;
GONIKBERG, I.V., retsenzent; ENGEL'KE, V A., retsenzent;
KHRAPKOV, V.A., retsenzent; AL'PERT, G.A., retsenzent;
ALEKSEYEV, B.N., retsenzent; 3KLYAROV, A.A., retsenzent
ALEKSEYEV, Ye.P., retsenzent

[Railroad surveying; reference and methodological handbook] Izyskaniia zheleznykh dorog; spravochnoe i metodicheskoe rukovodstvo. Moskva, Transport, 1964. 495 p. (MIRA 18:1)

1. Babushkin. Vsesoyuznyy nauchnc-issledovatel'skiy institut transportnogo stroitel'stva. 2. Leningradskiy gosudarstvennyy proyektno-izyskatel'skiy institut Gosudarstvennogo proizvodstvennogo komiteta po transportnomu stroitel'stvu SSSR (for Gonikberg, Engel'ke, Khrapkov).

3. Sibirskiy gosudarstvennyy proyektno-izyskatel'skiy institut Gosudarstvennogo proizvodstvennogo komiteta po transportnomu stroitel'stvu SSSR (for Alekseyev, YeP.).

4. Moskovskiy gosudarstvennyy proyektno-izyskatel'skiy institut Gosudarstvennogo proizvodstvennogo komiteta po transportnomu stroitel'stvu SSSR (for Al'pert).

DENISOV, V.A., kand. tekhn. nauk

Reducing the longitudinal stresses in the train by smoothing the track profile. Vest. TSNII MPS 24 no.1:48-49 165.

(MIRA 18:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut transportnogo stroitel'stva.

DENISOV, V.A., kand. tekhn. nauk; MANAKIN, A.M., kand. tekhn. nauk; KOSTENETSKIY, S.V., inzh.; KONDRASHEV, A.I., inzh.; MAKSIMENKO, G.A., inzh.; DEMENT'YEV, M.F., inzh.

Gooling steel anvil molds after their filling and the subsequent heat treatment of the castings. Lit. proizv. no.12:19-21 D '65. (MFA 18:12)

YAGODKA, P.N.; DENISOV, V.D.

I.P.Pavlov's teachings as applied to medical practice in a psychiatric hospital. P.N.IAgodka, V.D.Denisov. Zhur, nevr.i psikh.
55 no.3:234-235 '55.

(PSYCHOTHERAPY)

## "APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310120017-6

DENISOV, Y D.

42511. Zyerovodstvo V Gosudarstvennykh Ondatrovykh Promyslovykh Khozyaystvakh. Karakulevodstvo I Zverovodstvo, 1948, No. 6, S. 53-55.

DEVISOV, V. D. (Co-author)

See: OVCHINNIKOV, N. M.

Denisov, V. D. and Ovchinnikov, N. M. "Providing for the further growth of muskrat raising," Karakulevodstvo i zverovodstvo, 1949, No. 2, p. 51-55.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 17, 1949).

KORSAKOV, G.K.; SHIRENSKIY, A.A.; DENISOV, V.D., redaktor; FEDOSOVA, N.I., redaktor; GOLUBKOVA, L.A., tekhnicheskiy redaktor

[Using waters rich in vegetation for muskrat breeding] Zarastaiushchie vodoemy i ikh ispol'sovanie dlia ondatrovodstva. Pod red. V.D.Denisova. Moskva, Izd-vo tekhn. i ekon. lit-ry po voprosam zagotovok, 1956. 135 p. (Muskrats)

DENISOV, V.D. (Moskva)

Fifty years of the Z.P.Solov'ev Moscow City Clinical Psychiatric Hospital No.8. Zhur. nevr. i psikh. 65 no.5:772-774 '65. (MIRA 18:5)

SOV/136-58-5-10/22

AUTHORS: Denisor, V.F. and Peysakhov, I.L.

TITLE: A Bubbler-type Dust-catcher (Barbotazhnyy pyleulovitel')

PERIODICAL: Tsvetnyye Metally, 1958 Nr 5, pp 53 - 61 (USSR)

ABSTRACT: The authors point out that wet gas cleaning sometimes enables hydrometallurgical treatment to be started in the gas cleaner, outline the defects of both scrubber and high-speed turbulent types of cleaner and go on to describe a high-speed bubbler type. This (Figure 1) was developed by the authors at the dust-catching laboratory of the Gintsvetmet and tested at the "Elektrotsink" Works in collaboration with the works' research department. The installation is known as the BSPU and consists essentially of a bubbler followed by a type TsN-15 cyclone. A type VVD-4 fan moves the gas through the installation and the dirty liquid is sent, with the aid of a centrifugal pump; to a slurry-settling tank from which water flows by gravity to the bubbler. A submerged grid is used to improve the distribution of bubbles in the bubbler; the grid does not cover the whole cross-section and gas passage through it occurs at high velocity. The authors mention N.A. Fuks' views on the different factors influencing the removal of

Card 1/3

A Bubbler-type Dust-catcher

SOV/136-58-5-10/22

particles over and under 10<sup>-5</sup> cm in radius in liquids. They describe tests in which pressure drops were determined across various parts of the installation (Figures 3,4,5,6) under different conditions. In further tests, the installation was used to remove zinc oxide from gas\_at 100°C from a tubular furnace, the gas containing 30 g/mm² of solid. Its efficiency was measured in relation to the height of liquid above the grid (Figure 7), the dust content of the gas entering the bubbler (Table 1), the presence of the grid the solid content of the pulp and other factors. A steady 98% degree of gas cleaning was achieved with a 60-80 mm depth of liquid over the grid. For zinc-oxide removal, the efficiency of the installation did not depend on the depth of liquid or the gas velocity (200 - 500 m²/hour), was hardly affected by the solid content of the pulp or the nature of the liquid used, increased with increasing inlet dust content and decreased if the grid were removed. The authors conclude that design improvements are required

Card 2/3

A Bubbler-type Dust-catcher

SOV/136-58-5-10/22

for using the installation for tube-furnace gas cleaning but that the present form is already suitable for several applications in non-ferrous metallurgy. There are 9 figures, 2 tables and 2 Soviet references.

Card 3/3 1. Gases--Cleaning 2. Industrial plants--Equipment

DENISOV, V. F. Cand Tech Sci -- (diss) "Dust collection on certain objects of nonferrous metallurgy by bubbling." Mos, 1959. 16 pp with drawings (Min of Higher Education USSR. Krasnoyarsk Inst of Nonferrous Metals im M. I. Kalinin), 150 copies (KL, 41-59, 104)

-23-

ZEMSKOV, I.F., kand.tekhn.nauk; STEPANOV, A.S., inzh.; DENISOV, V.F., inzh.

Uniform distribution of gas flow in a multiplate apparatus with fluidized beds of granular material. Khim.amsh. no.6:21-23 N-D '60.

(MIRA 13:11)

(Gas flow) (Plate towers)

KUSHNIRKNKO, M.D.; DENISOV, V.F.

Accumulation of food reserves during the maturation of apple seeds as influenced by their place of formation in the tree crown. Biul.nauch.-tekh.inform.TSGL no.2:33-37 '56.

(MIRA 12:1)

(Apple) (Seeds)

USSR / Cultivated Plants. Fruit Trees. Small Fruit M Plants. Nut Trees. Tea.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25050

Author
Inst
Central Genetic Laboratory im. I. V. Michurin
Concerning Various Qualities of the Fruits,
Seeds and Vegetative Organs in the Apple
and Pear Trees Depending Upon Their Location

in the Crown of the Tree

Orig Pub : Byul. nauchno-tekhn. inform. Tsentr. genet. labor. im. I. V. Michurina, 1957, vyp 3, 38-44

Abstract : Accumulation of the solid substance in the tiers of the tree crown was investigated in connection with photosynthesis and their moisture content in the grafted apples, Pepin Chernenko, the Golden Early Chinese Maid and

Card 1/3

#### "APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310120017-6

USSR / Cultivated Plants. Fruit Trees. Small Fruit Plants. Nut Trees. Tea.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25050

Fourth Pepin; in the pear, Thin-Twig, and in the own-rooted apple-tree, Little Star; in the hybrid seedlings, One-Half and One-Fifth; in the seedlings, Slavic Maid, Belfleur-Chinese Maid, and in the forest pear, Daughter of Flava. Quality of the fruits and seeds, to a considerable extent, was conditioned by characteristics of metabolism and water regime of the crown's tiers, on which they had been formed. In the shoots and leaves of the crown's upper tiers, there was more of sugar and of the solid substance than in the lower tiers; therefore, fruits and seeds in the upper tiers were of a considerably better quality. Selectioners, in their task,

Card 2/3

166

USSR / Cultivated Plants. Fruit Trees. Small Fruit Plants. Nut Trees. Tea.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25050

must take into consideration the places of the seeds' formation and the disposition of graftings in the tree's crown. -- E. V. Kolesnikov M

Card 3/3

DENISOV, V.F.

Seed formation in different parts of the fruit tree crown.

Biul. nauch.-tekh. inform. TSGL no.4:59-64 '57. (MIRA 12:1)

(Fruit trees) (Seeds)

DENISOV, V.F.

Some characteristics of seeds and seedlings as related to the place of seed formation in the tree crown. Biul. nauch. inform. TSGL no.7/3: 167-174 '59. (MIRA 13:1) (Seeds) (Apple) (Pear)

TSETLIN, V.M.; DENISOV, V.F.; TSEDILIN, S.A.; Prinimali uchastiye:

SASIN, V.I., mladshiy nauchnyy sotrudnik; GUDIN, B.S., master;

DRACHEVA, T.V., laborantka; OL'KOV, V.T., laborant;

SLOVIKOVSKIY, A.A., laborant

Investigating the effect of various factors on the process of nonferrous metal dust coagulation in a sound field. Sbor. nauch. trud. Gintsvetmeta no.19:595-607 162.

(MIRA 16:7)

(Nonferrous metals—-Metallurgy) (Aerosols)
(Sound waves—Industrial applications)

# "APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310120017-6

VANIII, I.I., afterably nauchnyy sobrudnik; DENISOV, V.F., sterakty nauchnyy sobrudnik

Generator in chemical weed control. Zashch. rast. of vred. i bol. 9 no.7:29 '54. (MIRA 18:2)

1. TSentral'maya geneticheskaya laboratoriya imeni I.V. Michurina.

DENICOV, V. F.

Denisov, V. F. "Yak hide and its properties," Trudy Kirgiz. nauch.-issled.in-ta zhivotnovedstva, Issue 9, 1948, p. 270-86 -- Bibliog: 16 items

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

Name: DENISOV, Vasiliy Fedorovich

Dissertation! Domesticated yaks

Degree: Doc Agr Bci

Affiliation: Kirgiz Agr Inst

Defense Date, Place: 16 May 57, Council of Leningrad Vet

Inst

Certification Date: 19 Oct 57

Source: BMVO 23/57

DENISCH, I., F.

DENISOV, V., kand. seliskokliosyaystvennykh nauk.

Yak breeding is an important means of increasing meat production.

Sel'khoz. Kirg. 3 no.10:5-9 0 57. (MLRA 10:11)

(Kirghisistan--Yaks)

USSR / Form Animals. Cattle.

0-2

Abs Jour : Ref Zhur- Biol., No 14, 1958, No 64447

Author

: Denisov, V. F.

Inst

Not given

Title

: The Influence of Sires on the Butterfat Content in the

Milk of Cows Mated to Them

Orig Pub

: S. kh. Kirgizii, 1957, No. 6, 34-38.

Abstract

: The data from three farms, concerning the milk yield and fat content in the milk of the cows of the Ala-Tau breed fertilized by yaks and in the subsequent years by Ala-Tau bulls, as well as Ala-Tau Simmenthal cows fertilized by Jersey bulls of the same breed, Schwyz cows fertilized by thin-milk type bulls of the same breed, and yak cows fertilized by Schwyz bulls, were analyzed. According to the author, the male influences the fat content of the milk of not only its offspring but also of the females mated to him.

Card 1/1

USSR / Farm Animals. Cattle.

Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7353

Author

: Denisoy V. F.

Inst

: Not given

Title

: The Influence of the Embryo upon the Milk's

Fat Content of the Mother

Orig Pub : Zhivotnovodstvo, 1957, No 12, 44-47

Abstract : It was established that in Alatauskiy heifers which were mated with bulls of the Jersey breed and with yaks but which were not fertilized, the milk's fat content became increased by 0.1-0.04 percent. The effectiveness of the influence of a "fat milk" bull upon cows became more intensive when systematically employed in matings with the very same cows. For instance, after the first mating with the

Card 1/2

USSR / Farm Animals. Cattle:

Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7353

bull Silach / Athlete 7, the cows (28 heads) displayed an average milk yield of 4413 kg with a 3.65 percent fat content of the milk, after the second mating, 4926 and 3.68, and after the third mating, 5304 and 3.71. "Fat milk" bulls increase the fat content of the milk of cows with thin milk more markedly as compared to cows with fat milk.

30 MIRA

1. Kingizskiy selskokhozyaystvennyy INSTITUT LENI K.I. SKRYOBINA. imeni K.I. SKRYOBINA.

(FETUS) (BUTTERFAT)

Card 2/2

DENISOV, Vasiliy Fedorovich, doktor sel'skokhozyaystvennykh mauk,; ZHUKOVA, T.I., red.; GUREVICH, M.M., tekhn. red.

[Domestic yaks and their hybrids] Domashnie iaki i ikh gibridy.

Moskya, Gos. izd-vo sel'khoz. lit-ry, 1958. 114 p. (MIRA 11:11)

(Yaks)

COUNTRY

: USSR

CATEGORY

: General Biology.

В

Genetics. Animal Genetics.

ABS. JOUR.

r RZhBiol., No. 5, 1959, No. 19164;

AUTHOR

: Denisov, V. F.

INST. TITLE : The Selection of Fairs in Interspecies

Crossing of Animals.

ORIG. PUB.

: Zh. obshch. biol., 1958, 19, No 2, 163-173

ABSTRACT

: The goal is to find a criterium for a correct selection of a hybrid combination which produces heterosis without preliminary study of hybrids. The author maintains that the concept which regards the crossing itself and not the environmental conditions as the determining effect is incorrect, and considers it to be alien to materialistic biology. On the basis of Darvin's theory, the works of Soviet authors and his own studies the author comes to the

following conclusions:

Card:

1/2

### "APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310120017-6

COURTRY

USSR

CATECORY

ABS. JOUR. : RZhBiol., No.

1959, No.

AUTHOR I/31. TITLE

oRIG. PUB.

ABSTRACT

- : 1) the survival of the offspring depends on the constitutional strength of the parents;
  - 2) it is established at the time of fertilization, but its level cannot be changed by environmental influences, including embryonic influences;
  - 3) the constitutional strength of the mother is of the greatest importance, a fact which explains the reciprocal differences in the survival of the offspring. -- B. F. Kozhevnikov

CARD:

2/2

42

DENISOV, V.F., prof., doktor sel'skokhos.nauk; KHUDAYEERGENOV, D.K., red.; LOBANTSEV, A.S., tekhred.

[Recent developments in breeding cattle for high butterfat production] Movoe v selektsii krupnogo rogatogo skota po zhirnomolochnosti. Frunze, Kirgizskii sel'khoz.in-t, 1960.
47 p. (MIRA 14:4)
(Dsiry cattle breeding) (Butterfat)

DENISOV, V.F., prof.

Some data on the nautre of the inheritance of butterfat content in eattle. Zhivotnovodstvo 23 no.6:53-59 Je 161. (MIRA 16:2)

1. Kirgiskly sel'skokhozyaystvennyy institut.
(Dairy cattle breeding)

DENISOV, V.F.; PENZINA, M.I.

Cooling of gases from furnaces for the fluidized roating of zinc concentrates. TSvet.met. 34 no.9:42-48 S '61. (MIRA 14:10)

1. Gosudarstvennyy nauchno-isaledovatel'skiy institut tsvetnykh metallov.

(Gases--Cooling) (Zinc--Metallurgy)

DENISOV, V.F.

Stability of hydraulic systems. Uch. zap. Mord. gos. un. no.15 pt.2:52-61 163.

Experimental determination of the axial hydrodynamic force in hydraulic slide valves. Ibid.:68-70

(MIRA 18:6)

AUTHOR: Denisov, v.G. Engineer 100-9-9/11

TITIE: Trailer - Tank for Fuel (Pritsep-tsisterna dlya goryuchego)

PERIODICAL: Mekhanizatsiya Stroitel'stva, 1957, // No.9, p. 25 (USSR).

ABSTRACT: A building organisation in the Moscow area is using a specially designed trai.er-tank (Fig. on p.25) which supplies fuel to machines on building sites in remote areas. These machines have either diesel engines or carburetter engines and require 2 different types of fuel and 2 or 3 different types of lubricating oil. Its capacities are: 3 000 kg diesel fuel, 2 000 kg gasoline and 500 kg lubricating oils (of various types). There is 1 photograph.

AVAILABLE: Library of Congress Card 1/1

1. Fuels-Transportation 2. Trailers-Applications 3. Tank trailers-Applications

DENISOV, V.G.

Stand for testing the hoisting and conveying machinery. Suggested by V.G. Denisov. Bats.i izobr.predl.v stroi. no.16:82-84 '60. (MIRA 13:9) (Hoisting machinery-Testing) (Conveying machinery-Testing)

VAYNSHTEYN, O.Ya.; DENISOV, V.G.; KHRYUKINA, V.A. SHUL'KIN, M.L.

Economizing chromium in the production of chromium steel. Metallurg 8 no.4:18-19 Ap '63. (MIRA 16:3) (Chromium steel-Metallurgy)

DENISOV, V. G.

٤.3

1(1)

PHASE I BOOK EXPLOITATION

SOV/3491 SOV/11-M-109

Moscow. Aviatsionnyy institut imeni Sergo Ordzhonikidze

Aviatsionnoye priborostroyeniye i avtomatika; sbornik statey (Instrument Making and Automatic Systems in Aviation; Collection of Articles) Moscow, Oborongiz, 1959. 147 p. (Series: <u>Its</u> Trudy, vyp. 109) Errata slip inserted. 5,200 copies printed.

Sponsoring Agency: USSR. Ministerstvo vysshego obrazovaniya.

Ed.: B. A. Ryabov, Doctor of Technical Sciences, Professor; Ed. of Publishing House: N. A. Gortsuyeva; Tech. Ed.: L. A. Garnukhina; Managing Ed: A. S. Zaymov-skaya, Engineer.

PURPOSE: This book is intended for scientific and technical personnel in the field of instrument making and automation, and for students of technical schools of higher education.

COVERAGE: The book is a collection of 10 articles describing certain aspects of aircraft automatic control and regulation and aviation instrument making. The

Card 1/5

Instrument Making and Automatic (Cont.)

SOV/3491

articles consist of parts of the authors' dissertations or describe results of scientific research work of the Department of Aircraft Instruments and Automatic Systems of the Moscow Aviation Institute. References are given at the end of some articles.

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Relative Motion	5
The author studies the kinematics of relative motion in complex systems and derives relationships between kinematic elements (velocity and acceleration) of the motion of a point with respect to each system. The problem is important in the construction of navigational systems.	
Danilin, V. P., Candidate of Technical Sciences. Using Gyroscopes With Three Degrees of Freedom for Measurement of Angular Velocities	22
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Instrument Making and Automatic (Cont.)

SOV/3491

Danilin, V. P., Candidate of Technical Sciences. Diagrams of Biaxial Measuring Devices of Angular Velocities on the Basis of a Gyroscope With Three Degrees of Freedom

The author considers independent methods of fluid velocity measurement, compensation of temperature errors, and some other problems of aviation instrument production.

Vovchenko, N. Ya., Candidate of Technical Sciences. Dynamic Characteristics of Velocity Spiral Vane Flowmeters

The author discusses dynamic errors of flowmeters in measuring variable rate flows. Analytic formulas are established and experimental verification of coefficients is given.

Denisov, V. G., Candidate of Technical Sciences. Application of Similarity Theory and of Physical Modelling to the Investigation of Velocity Flowmeters for Liquids

The author presents an effective method for determining the basic characteristics of current-type flowmeters under various operating conditions. Results obtained by theoretical methods were checked experimentally.

Card 3/5

Instrument Making and Automatic (Cont.) SOV/3491	
Vovchenko, N.Ya., and A. P. Yurkevich, Candidates of Technical Sciences. Analysis of Kinematic Temperature Compensation The authors present a method of compensating for temperature errors in navigational instruments with linear and nonlinear characteristics of membrane deflections.	70
Yurkevich, A. P., Candidate of Technical Sciences; and Engineer Yu. F. Anan'yev. Methods of Measuring Velocity of an Airflow The authors review Soviet and foreign literature on variable airflow measuring methods.	79
Vertinov, A. I., and S. R. Mizurin, Candidates of Technical Science.  Precise Regulation of D.C Motor Speed  The authors have developed a method of controlling synchronous rotation speeds of d.c motors which has a high stabilization accuracy.	94
Karogodin, V. M., Candidate of Technical Sciences. A Problem of Fighter Aircraft Dynamics  The author establishes and solves the differential equation of fighter aircraft motion, finds the law of this motion on the trajectory, computes leads acting on the fighter aircraft, and determines the method of its control.	121
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Instrument Making and Automatic (Cont.)

800/3491

Karagodin, V. M., Candidate of Technical Sciences. A Nonlinear Problem

138

in the Vibration Theory
The author considers a mechanical system with one degree of freedom.
The studies conservative systems with forces depending on coordinates
He studies. Selfoscillating systems and conservative systems
and velocities. Selfoscillating systems are not considered.

AVAILABLE: Library of Congress

AC/101 5-6-60

Card 5/5

### PHASE I BOOK EXPLOITATION

SOV/6192

- Denisov, Viktor Grigor' yevich, Candidate of Technical Sciences, Colonel of Engineers, and Rostislav Nikolayevich Lopatin, Lieutenant Colonel of Engineers.
- Pilotazhno-navigatsionnyye pribory; o pilotirovanii samoleta po priboram (Flight-Navigation Instruments; the Piloting of a Plane by Instruments). Moscow, Voyenizdat, 1962. 108 p. 7500 copies printed.
- Ed.: Medvedev, I. M., Guards Lieutenant Colonel; Tech. Ed.: R. I. Chapayeva.
- PURPOSE: This book is intended for flight and engineering personnel in all areas of aviation and for specialists engaged in the design and use of instruments in aircraft.
- COVERAGE: The book shows that effective control of an aircraft depends not only on the pilot, but also on flight navigation instruments and the methods of their combination and location on the instrument panel.

Card 1/2

## PHASE I BOOK EXPLOITATION

sov/5979

Denisov, Viktor Grigor'yevich, and Rostislav Nikolayevich Lopatin

Letchik i samolet (Pilot and Plane) Moscow, Oborongiz, 1962. 200 p. Errata slip inserted. 14,000 copies printed.

Reviewer: V. A. Popov, Colonel in Medical Military Corps; Ed.: I. A. Oderov, Engineer; Ed. of Publishing House: L. A. Belyayeva; Tech. Ed.: N. A. Pukhlikova; Managing Ed.: L. A. Gil'berg.

PURPOSE: This popular-type book is intended for the general reader. It may also be of interest to pilots and engineers in the Soviet Air Force and Civil Air Fleet, and to engineers and technicians in the aircraft industry.

COVERAGE: The book discusses aircraft navigational instruments, automatic devices, and life-support equipment and systems for high-altitude flying. Particular attention is given to the problem of the optimum interdependence between the psycho-

Card 1/3

## Pilot and Plane (Cont.)

SOV/5979

physiological factors represented by the pilot, and the steadily rising performances of automatic devices and computer techniques, an interdependence based on intelligent balancing of the utilization of both the human and mechanical possibilities. The book only occasionally touches upon space-flight aspects. No personalities are mentioned. There are no references, but an extensive use of non-Soviet sources is noted in the Introduction.

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5. Automatic Devices "Replace" the Pilot	92
6. The Pilot "Flies" a Ground Trainer	110
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AVAILABLE: Library of Congress	
SUBJECT: Aerospace	
<b>Card</b> 3/3	AD/wrc/ldc 7/18/62

S/865/62/002/000/006/042 D405/D301

AUTHOR:

Denisov, V.G.

TITIE:

Some aspects of combining man and machine in complex

control systems

SOURCE:

Problemy kosmicheskoy biologii. v. 2. Ed. by N. Sisa-

kyan and V. Yazdovskiy. Moscow, Izd-vo AN SSSR, 1962,

54-65

The requirements are formulated which indicator and signalling devices should fulfill in complex flight control systems involving a human operator. The following types of indicator and signalling equipment are analyzed: pointers with maximum-minimum scale, pointers with graduated scale, yes-no indicators, representative displays and conventional displays. In manual control systems, the operator receives information in both quantitative and qualitative form. The relationship between these forms of information ought to be determined in the course of designing the particular manual-control system; thereby it should be taken into account that

S/865/62/002/000/006/042 D405/D**3**01

Some aspects ...

an increase in the accuracy of reading of pointer devices requires an increase in the number of scale divisions, which involves a reduction in the qualitative information provided by such a system. Fast and crrorless reading depends mainly on the type of read-out, the way in which instruments are combined, and their mutual disposition on the control desk. It was found that digital read-outs yield highest accuracy of reading. The digits should be disposed in such a way that they should be read in the expected direction, increasing either clockwise or from below upwards. The joining of various instruments in a single unit reduces the reading time; this unit should comprise instruments which measure related parameters. Since the operator does not control each instrument continuously, but discretely (one after another), it is of interest to determine the minimum frequency of instrument observation; this can be done by a well-known information-theoretical theorem of V.A. Kotel'nikov. Thereby it is found that digital read-outs are preferable as compared to pointer instruments with regard to speed of reading and accuracy, but they are inferior with regard to the quantization period of the variable parameters. In complex systems, it is required to incorpor-Card 2/3

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Some aspects ...

ate automatic controllers, which would relieve the operator from controlling the object himself; his task would be confined to perciodic checking of the automatic control operations. With respect to visual signalling, a simple three-color system (red-green-yellow) would give best results. Accuracy, stability and performance of manual control systems can be secured on the basis of a direct connection between the controlling action and the controlled object. There are 6 figures.

DENISOV, Viktor Grigor'yevich; ZELENKOV, S.V., insh., retsenzent; VOROB'YEV, L.M., kand. tekhn. nauk, red.; ODINTSOV, V.A., kand. tekhn. nauk, red.; SAVCHENKO, V.F., kand. tekhn. nauk, red.; ODEROV, I.A., red.izd-va; KARPOV, I.I., tekhn. red.

> [Aircraft navigation instruments] Navigatsionnoe oborudovanie letatel'nykh apparatov. Moskva, Oborongiz, 1963. 383 p. (MIRA 16:5) (Aeronautical instruments)

ACCESSION NR: AR5006997

S/0275/65/000/001/V010/V010
621.38:629.196.4

SOURCE: Ref. zh. Elektronika i yeye primeneniye. Sv. t., Ats. 1 V59

AUTHOR: Akulinichev, I. T.; Bayevskiy, R. M.; Denisov, V. G.; Yazdovskiy, V. I.

TITLE: Biotelemeter systems in astronautics

CITED SOURCE: Sb. Radiotelemetriya v fiziol. i med., Sverdlovsk, 1963, 10-13

TOPIC TAGS: hiotelemeter (

TRANSLATION: The biotelemeter monitoring of many-day astronatic flights is based on a continuous presence of all sensors and electrodes on the astronaut during the flight and on an automatic control of the shipborne equipment. Eighteen parameters were investigated: electrocardiogram, pneumogram, electric myogram, body temperature, photocardiogram, air pressure, air humidity, air temperature,

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Og content, COg content, etc. TV observation, radiocommunication, and cosmicradiation monitoring were added to the above measurements. It is believed that the medical-monitoring biotelemeter systems will be developed on the basis of dynamic telemetry and automatic tracking of medical parameters produced by

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Pq-L/Pac-L/Pae-2 AST ACCESSION NR: AR4046575 5/0271/64/000/008/A077/A077 SOURCE: Ref. zh. Avtomat., telemekh. i vychisl. tekhn. Svodnyy tem, Abs. 8A509 & AUTHOR: Denisov, V. C.; Yegorov, A. D.; Kuz minov, A. P.; Sil vestrov, N. M.; Soshin, B. A. TITLE: Using biotelemetric data for investigation of the control systems man-operated cosmic ship CITED SOURCE: Sb. Radiotelemetriya i fiziol. 1 med. Sverdlovsk, 1963, 121-124 TOPIC TAGS: telemetry communication, biometrics TRANSLATION: Some psychological problems arising in the constructing of cosmicship control systems are considered. A parameter is suggested which would allow for the entire information on the psychophysiological condition of the operator and on the deviations of the controlled quantities set by the operator in the course of control; this parameter is proposed as an objective criterion for comparing various systems similar in their output data. Under random external disturbances, the Roperator - shap" spatca has a certain degree of indeterminacy which permits avaluating the system conditions, viz., operator's organism

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YAZDOVSKIY, V.I., prof.; DENISOV, V.G., kand.tekhn.nauk

Flights of the spaceships "Vostok-5" and "Vostok-6." Vest.
AN SSSR 33 no.9:17-22 S '63. (MIRA 16:9)

(Vostok (Manned satellite))

DENISOV, Viktor Grigor'yevich, kand. tekhn. nauk; DUBROVSKIY, Ye.V., red.

[The astronaut flies... on earth] Kosmonavt letaet... na Zemle. Moskva, "Mashinostroenie," 1964. 149 p. (MIRA 17:6)

## "APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310120017-6

DENISOV, V.G.; KUZ 'MINOV, A.P.; YAZDOVSKIY, V.J.

Basic problems of engineering psychology in space flight. Probl. kosm. biol. 3:66-79 '64. (MIRA 17:6)

L 22591-65 EEO-2/EWG(j)/FSF(h)/EWG(r)/EWT(1)/EWP(m)/FS(v)-3/EEC(k)-2/EWG(v)/EWG(a)/EWG(c) Pd-1/Pe-5/Pi-li/Pc-li/Pq-li/Pac-li/Pae-2 IT/DD/RD/GW

ACCESSION NR: AP4046782

\$/0293/64/002/005/0783/0796

AUTHOR: Denisov. V. G.; Zav'yalov, Ye. S.; Kuz'minov, A. P.; Sil'vestrov, M. H.; Kazdovskiy, V. I.

TITLE: Problems of engineering psychology in cosmonautics and some results of investigations

SOURCE: Kosmicheskiye issledovaniya, v. 2, no. 5, 1964, 783-796

TOPIC TAGS: commonant training, engineering psychology, biotelemetry, cybernetic measuring, closed ecological system, manned spaceflight

ABSTRACT: The authors discuss various problems of creating space—ship control systems and training of cosmonauts for prolonged space—flights. Block diagrams are presented which reflect methods of evaluating closed operator-spaceship systems by means of cybernetics and information theory systems. These systems would yield engineering evaluations of spaceship operations and physiological records of the biopotentials of various functional systems of man. The physio-logical records would, in turn, reveal the level of psychological and physiological stresses as well as indicate the working capacity of the crew members. Some results of investigations in this field Cord 1/2

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ACCESSION NR: AF4046782

are presented with special attention given to recording, signaling, and voice transmission control sytems. The use of complex functional and specialized training devices, including those which could be used on board spaceships, is discussed with the aim of maintaining the work habits of commonsuts over the long periods of time which prolonged spaceflights would entail. Orig. art. has: 6 figures and 1 table.

ASSOCIATION: none

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ENCL: 00

SUB CODE: PH, LS

NO REF SOV: 006

OTHER: DO3

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#### CIA-RDP86-00513R000310120017-6 "APPROVED FOR RELEASE: 06/12/2000

L 29436-66

ACC NR: AT6012890

SOURCE CODE: UR/0000/65/000/000/0112/0118

AUTHOR: Bulat, A. A.; Denisov, V. G.; Kuz'minov, A. P.; Onishchenko, V. F.; Rozanov, Yu. A.; Sil vestrov, M. M.

ORG: None

TITLE: An integral method for evaluating the effective training level of operators in control systems

SOURCE: Sistema chelovek i avtomat (Man-automaton systems). Moscow, Izd-vo Nauka, 1965, 112-118

TOPIC TAGS: man machine communication, electrophysiology, specialized training, training procedure, human engineering

ABSTRACT: The authors consider the dynamics of the process by which an operator acquires skill in control and the degree to which training is effective in an attempt to solve the problem of adaptation of an operator to the system which he controls. Factors affecting the speed at which working habits are formed are discussed. It is pointed out that the purely psychological method for evaluating the level of training effectiveness is not sufficiently complete and objective. Electrophysiological methods are used for a fuller evaluation of the habit formation process using electroencephalograms, electromyograms, electrocardiograms, cutaneogalvanic reactions, and pneumograms to study changes in the neuropsychic makeup of the operator. The results of tests show a reduction in the bioelectric activity of the muscles and high-frequency

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### ACC NR: AT6012890

rhythms of the cerebral cortex as well as in the amplitude of electrocutaneous potentials and the number of cardiac contractions to a frequency close to the normal pulse rate. A diagram is given showing the equipment for comprehensive registration of the electrophysiological indices of the operator during training. An analysis of the dynamic process of coordination between the various systems in the organism of the operator during training is used for determining the instant when the operator reaches optimum capacity for dealing with control problems. It is found that the circulation of a definite quantity of information is required for maintaining a given control process. This quantity of information is evaluated for a closed control system with a single human link. An integral expression is given for evaluating the level of effecsystems. A curve is given showing the tiveness of operator training in man-machine degree of training effectiveness for an operator in a complex control system as a function of the number of training exercises. Seven parameters were used for evaluating training effectiveness. It was found that working habits were formed after 12-13 training periods. Orig. [80] art. has: 2 figures end 5 formulas.

SUB CODE: 05 / SUBM DATE: 02Aug65 / ORIG REF: 008/ ATD PRESS:50 /0

Card 2/2 1

SOURCE CODE: UR/0000/65/000/000/0215/0228 AUTHOR: Volkov, A.A.; Denisov, V.G.; Kirilenko, Yu. I.; Mankevich, V.I.; Mel'nik, ACC NR: AT6012899 8+1 Mikhaylovskiy, G.P.; Onishchenko, V.F.

TITLE: The structure of the command signal and the psychophysiological capabilities of an ORG: none

SOURCE: Sistema chelovek i avtomat (Man-automaton systems). Moscow, Izd-vo Nauka, operator in control while subjected to G force

1965, 215-228

TOPIC TAGS: man machine communication, automatic control theory, human engineering, biologic gravity effect, flight physiology, psychologic stress

ABSTRACT: Circuits containing a man-operator as one of their elements are extensively ADDITACT: Circuits containing a man-operator as one of their elements are extensively used in modern control systems. The case studied involves the control of the pitch of an algorithm of the pitch of an algorithm of the particular and the pitch of aircraft in descent prior to landing. An experimental investigation is made of the psychophysiological characteristics of an operator during control under conditions of G force acting in the chart-heal direction. It is found that with a C force below a certain limit the physiological characteristics of an operator during control under conditions of G lower in the chest-back direction. It is found that with a G force below a certain limit, the single control command. The structure of the control command should be identical with the single control command. The structure of the control command should be made in the principle of control of an automatic system; furthermore, a correction should be made in the operator is capable of controlling

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command system, i.e., the dynamic properties of the operator should be corrected.

Optimal structure of the control command may be selected by methods employed for automatic control systems. The quality of the control is considerably affected by its dynamic characteristics, by the preparation and the training of the operator, by perturbation factors, and by the organization of the working place of the man-operator.

According to data obtained with the polyeffector method of recording physiological functions, an increase in G force acting on the man-operator leads to the execution of control functions which are unchanged in capacity at a high neuropsychic stress and at a lowered performance. The polyeffector method makes it possible to determine the neuropsychic activity of the operator under G force more fully. An objective evaluation of the processes employing the man-operator in the control circuit may be obtained as a result of analysis of the parameters of the motion dynamics of the controlled plant, the actions of the operator, and the degree of the operator's psychophysiological stress. Orig. art. has: 12 figures and 18 formulas.

SUB CODE: 05 / SUBM DATE: 02Aug65 / ATD PRESS: 02/2/

Card 2/2 ZC

10756-66 ACC NRI ESS\_2/ENT(1)/EVIP(m)/FS(v)-3/EEC(k)-2 AP5025356 SOURCE CODE: UR/0245/65/000/005/0005/0017 AUTHOR: Volkov, A. A. (Hoscow); Denisov, V. G. (Moscow); Zav'yalov, Ye. (Moscow) ORG: none

TITLE: Features of the work of the human operator during control of spacecraft sys-SOURCE: Voprosy psikhologii, no. 5, 1965, 5-17

TOPIC TAGS: gravitation effect, weightlessness, artificial gravity, space medicine,

ABSTRACT: After describing gravity and weightlessness as the phenomena that affect human performance most sharply the authors discuss the following spacecraft control systems with reference to the specific psychophysiological demands made on astronauts: (1) orientation of the vehicle by heavenly bodies and stabilization of the direction selected; (2) approaching other vehicles and docking operations; (3) control of the vehicle in operations associated with emergence from orbit and landing; (4) control in correction of flight trajector; (5) control of instruments for observing objects from the spacecraft. The authors review the literature on the physiological disturbances resulting from prolonged weightlessness and adynamia. Among the methods proposed to enable man to maintain his normal activity and physical fitness

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ACC NR: AP5025356

on extended spaceflights (drugs, physical exercise, creation of artificial gravity), artificial gravity seems to be the most promising. Analysis of the effect of human factors on the selection of design parameters for the spacecraft in which artificial gravity is to be created by rotation shows that the maximum limit of angular rotation so the spacecraft of the spacecra

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L 14267-66 EWT(1)/FS(v)-3 SCTB DD/RD

ACC NR: AT6003834

SOURCE CODE: UR/2865/65/004/000/0003/0009

AUTHOR: Gurovskiy, N. N.; Denisov, V. G.; Kuz'minov, A. P.; Sil'vestrov, M. M.

ORG: none

TITIE: Training devices for preparing cosmonauts for occupational activity in controlling spacecraft and their systems

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 3-9

TOPIC TAGS: cosmonaut training, space flight simulation, manned spacecraft, space physiology, spacecraft navigation, spacecraft control, space environment simulation, training equipment, spacecraft capsule

ABSTRACT: Training craft such as are used for actual flight schooling of aviators do not exist for training cosmonauts. Reliance must therefore be place on ground trainers, which must be able to simulate the conditions and factors of normal and emergency spaceflight situations and model the operation of spacecraft systems and the dynamics of flight.

A great variety of training devices are used. The general characteristics of such devices must be based on time and motion studies of cosmonaut

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ACC NR: AT6003834

activities, operation of various systems, definition of training objectives, and analysis of training programs and effectiveness of training devices.

All training devices fall into one of three groups: 1) those for physiological training to increase resistance or adaptation to extremal flight factors; 2) those for occupational training in flight operations; and 3) those which combine physiological with occupational training. The present article discusses various types of devices designed to provide training in spacecraft piloting and systems control.

Depending on the number of systems, flight stages, and flight tasks to be modeled, trainers may be classed as 1) universal, 2) complex, 3) spe-

cialized. or 4) functional.

Universal trainers (which may be dynamic or static) are complex devices which may be adjusted to simulate the characteristics of existing or projected space craft. The most important elements of a universal trainer are a cabin mockup, computer, instructor's control panel, night sky and earth simulators, program device, and recording apparatus. The cabin mockup may be designed to simulate flight conditions (temperature, noise, vibration, atmospheric gas composition, pressure, humidity, and convection) on the spacecraft.

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ACC NR: AT6003834

Complex trainers are designed to train all crew members in the details of their activities on a given type of ship at all stages of flight. The complex trainer used for Vostok pilots includes training for flight and for using systems monitoring manual attitude control, for Earth-ship communications, systems control, manual deorbiting procedures, and for various types of emergencies. All on-board equipment was simulated; the mockup cabin was identical with that of the actual ship. Such details as the alternation of day and night in orbital flight were reproduced. Training problems were imposed from the instructor's control panel outside the trainer. All phases of normal flight and emergencies in every flight stage were simulated on the Vostok trainer. The construction of complex trainers for multiman interplanetary and orbital spacecraft crews and pilots of orbital aircraft (rocket planes) is envisioned.

Specialized trainers are those designed to provide training in specific flight tasks or activities or the use of control equipment for specific maneuvers. Examples are devices for training cosmonauts in attitude control, navigation, changing orbits, rendezvous and docking operations, assembly and repair of space stations or spacecraft while in orbit, getting an inter-

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ACC NR: AT6003834

planetary vessel under way from a space station, and so on. Specialized trainers model only those systems and information sources entering into the performance of a specific flight task. A specialized trainer was used to prepare the crew of Voskhod-2 for EVA. Consisting of a cabin mockup with an airlock, which was placed in a vacuum chamber, it enabled Leonov and Belyayev to rehearse every detail of the EVA until it was second nature. Another example of a specialized trainer is the airlock flown on parabolic trajectories to provide training in egress and ingress procedures during weightlessness. Training devices carried on long spaceflights to keep space pilots from getting rusty in landing procedures are also classed as specialized trainers. On-board trainers are designed to make use of existing indicators, signals, manual controls, and the on-board computer.

Functional trainers are designed to provide practice in motor habits or other functional capacities utilized during more complex flight operations, e.g., tracking, concentration, perception, and other basic skills. It models only what is required to increase human functional capacity in one or another respect. Functional trainers are simple, cheap, and efficient. They are, therefore, well suited to types of training requiring many hours to establish

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ACC NR: AT6003834

or perfect the required habit patterns.

Theoretically it would be possible to build a combined trainer which would combine all the modeling capabilities of universal, complex, and specialized trainers, but this would be a prohibitively expensive proposition, and at present it is considered neither desirable nor necessary to do so. Universal-type trainers, which also attempt to model too wide a variety of characteristics and conditions, are unwieldy and inefficient.

The authors conclude that since cosmonauts are trained for specific ships and specific tasks on a given ship, three types of trainers are necessary and sufficient: complex, specialized, and functional. [ATD PRESS: 4091-F]

SUB CODE: 05, 22 / SUBM DATE: none / OTH REF: 001

Card 5/5

MARKOVICH, I. M. (Moskva); BRAILOV, V. P. (Moskva); DENISOV, V. I. (Moskva)

Use of mathematical programming methods in the solution of a problem concerning the future development of the consolidated electric utility system. Izv. AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.6:11-16 N-D '62. (MIRA 16:1)

(Electric power distribution)

DENISOV, V.I.; SULIMENKO, P.P.; OLEYNIK, A.I.; OLEYNIK, I.I.

Machine for precessing glass edges. Stek.i ker. 19 no.9:31 S '62. (MIRA 15:9)

DENISOV, V.I.; KRUTEL', A.T.; PODLESSKAYA, Ye.M.; BREDIKHINA, A.M.; SUCHALKINA, Z.P.; VERBSHCHAGINA, N.M.; DENISOVA, T.F.; PIROGOV, V.I., red.; KUZIN, N., tekhn.red.

[Economy of Belgorod Province; a statistical manual] Narodnoe khoziaistvo Belgorodskoi oblasti; statisticheskii sbornik. Orel, Gosstatizdat, 1959. 253 p. (MIRA 13:6)

1. Belgorodskaya oblast'. Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo upravleniya Belgorodskoy oblasti (for Pirogov).

(Belgorod Province--Statistics)

DENISOV, Viktor Ivanovich; NIKOLAYENKO, A.L., redaktor; HILEYEV, A.S., Fedaktor; TIKHOMOVA, Ye.A., tekhnicheskiy redaktor.

[Decks and their eperation] Deki i ikh ekspluatatsiia] Meskva, Ixd-ve "Merskei transpert", 1955. 65 p. (MIRA 9:4) (Decks)

DENISOV, V.I., inzh.

Time modulation for purposes of controlling the state of two-positional objects. Shor. trud. LIIZHT no.179:15-27 '61. (MIRA 16:11)

# DENISOV, V.I.

We are establishing a mailroad computing center. Avtom., telem. i sviaz' 8 no.5:37-38 My '64. (MIRA 17:10)

1. Glavnyy inzh. proyekta Vychislitel'nogo tsentra Gor'kovskoy dorogi.

(Electric lines -- Testing)

DENISOV, V.I., insh.

Device for locating damage in communication lines. Avtom., telem.

i svias' no.10:28-29 0 '57. (MIRA 10:11)

8(6)

PHASE I BOOK EXPLOITATION

sov/2382

- Avramenko, F.D., V.I. Veyts, B.A. Gurevich, V.I. Denisov, A.G. Zakharin, N.A. Karaulov, I.S. Kolosov, N.N. Krachkovskiy, S.N. Kritskiy, M.M. Lebedev, T.K. Leont'yeva, M.F. Menkel', A.S. Nekrasov, G.I. Rossiyevskiy, and B.I. Shvorin
- Osnovnyye voprosy planirovaniya yedinoy energeticheskoy sistemy SSSR (Basic Problems in Planning a Unified Power System for the USSR.) Moscow, Izd-vo AN SSSR, 1959. 174 p. Errata slip inserted. 2,500 copies printed.
- Sponsoring Agency: Akademiya nauk SSSR. Energeticheskiy institut.
- Eds.: G.M. Krzhizhanovskiy, Academician and V.I. Veyts, Corresponding Member, USSR Academy of Scientes; Tech. Ed.: S.G. Markovich.
- PURPOSE: This book is intended for government planning circles, scientific research organizations and others interested in the electrification of the USSR.
- COVERAGE: The book examines the principal problems of a unified power system Card 1/11

Basic Problems (Cont.)

SOV/2382

for the USSR as a basis for a program of government planning in that field. It is the result of several years of study conducted mainly at the Power Engineering Institute of the Academy of Sciences, USSR, in cooperation with power engineering institutes of the individual Soviet Republics, universities and learned societies, and in close cooperation with the Gosplan, USSR. These studies are concerned with basic problems of a scientific nature and problems of technical policy for the prospective development of a unified electric power system in the USSR. The problems outlined are applicable when the planned system reaches an output of 1000 billion kwhr's which is scheduled for 1970. One of the results of the plan is that since it is possible to obtain higher installed capacities in a shorter time and at lower capital outlays by the construction of steam turbine electric power plants rather than hydraulic ones, the emphasis is now on building steam-turbine plants with a simultaneous slowdown in hydro-power developments, excepting the most economical ones or those which are the only or the main sources of power in a given region or are dictated by other needs, such as irrigation, river control, etc. Nuclear plants will play a steadily increasing role in the development of a unified power system. Several problems of a purely scientific and technical nature were prompted by the study of a unified system: problems of nuclear power stations, the application of highspeed electronic computers for automatic control, regulation and protection Card 2/11

Basic Problems (Cont.)

sov/2382

of the system, the increasing use of semiconductors, the use of various types of fuels, etc. These problems were presented in two earlier publications of the Academy of Sciences: Nauchnyye osnovy sozdaniya i razvitiya yedinoy energeticheskoy sistemy SSSR (Scientific Bases in the Creation and Development of a Unified Power System in the USSR; Conclusions of a Coordinating Conference, Moscow, 1957; and Razrabotka nauchnykh osnov razvitiya energeticheskikh sistem i ikh ob"yedineniya yedinuyu energeticheskuyu sistemy

(Working Out of Scientific Bases in the Development of Power Systems and Their Integration Into a Unified Power System. Series: Voprosy sovetskoy nauki, Moscow, 1950. The following persons participated in writing the book: F.D. Avramenko (Chapters 2 and 4); V.I. Veyts (Chapters 2, section 4 of Chapter 3, Chapter 4, section 1 of Chapter 6, Chapters 8 and 9); B.A. Gurevich (Chapter 1, section 1 of Chapter 7); V.I. Denisov (Chapters 4 and 8); A.G. Zakharin (section 2 of Chapter 7); N.A. Karaulov, S.N. Kritskiy and M.F. Menkel' (Chapter 5); N.N. Krachkovskiy (section 4 and 5 of Chapter 6); I.S. Koslov (section 8 of Chapter 1); M.M. Lebedev (Chapter 6, section 1 of Chapter 7, Chapters 9,10,11); T.K. Leont'yeva (section 1 of Chapter 3); A.S. Nekrasov (sections 2 and 3 of Chapter 9); G.I. Rossiyevskiy (Chapter 3); B.I. Shvorin (Chapter 2). Those who participated in preparing the material were: M.M. Albegov, K.N. Bestuzheva, V.A. Bondareva, M.S. Vdovchenko, A.L. Velikanov, Ye.A. Volkova, V.A. Gadiyeva, I.I. Kon'ya, P.N. Korobova, Yu.S. Kretinina, M.A. Card 3/11

Basic Problems (Cont.)

S/11/2382

Kurganova, V.I. Kutumova, A.R. Monestyrskaya, S.I. Ostrovskiy, Yu.A. Pereslegin, P.Ya. Pirkhavka, A.G. Sambros. A.G. Kudinov prepared the book for printing. The authors express their thanks to I.M. Markovich, Doctor of Technical Sciences, V.I. Popkov, Corresponding Member of the Academy of Sciences, USSR, and M.A. Styrikovich, Corresponding Member of the Academy of Sciences, USSR, who revised the manuscript. The authors also thank G.M. Krzhizhanovskiy, Academician, for his scientific assistance. There are no references.

#### TABLE OF CONTENTS:

From the Authors

2

Introduction. G.M. Krzhizhanovskiy, Academician and V.I. Veyts, Corresponding Member, Academy of Sciences, USSR

PART ONE. SOME PROBLEMS IN PLANNING AND DESIGNING A UNIFIED POWER SYSTEM IN THE USSR

Ch. I. Problems in Determining Prospective Conditions of Electric Load for a
Unified Power System. Power Reserves
1. Significance and state of the problem
11

Card 4/11

DENISOV, V.I.

Effect of the combining of electric load graphs on the structure of the operating capacities of a unified power system. Obshch. energ. no.1:31-42 159. (MIRA 13:2) (Electric power production)

VEYTS, V.I.; LEREDEV, M.M., kand.tekhn.nauk; DENISOV, V.I., kand.ekonom.nauk; ALEREGOV, M.M., inzh.; PERESLEGIN, Yu.A., inzh.

Joining of the consolidated electric power systems of the Siberian and European U.S.S.R. Elektrichestvo no.2:1-9 F '6'. (MIRA 14:3) (Interconnected electric utility systems)

POPMOV, V.I.; ZAMMARIN, A.G.,; MARKOVICH, I.M.; TOISTOV, Yu.G.; CUREVICH, B.A.; KHACHKOVSKIY, N.N.; LEBEDEV, M.M.; MIRHAYLOV, V.I.; DENISOV, V.I.; MOSKVITIN, A.I.; PEYFROVICH, E.A.; TELESHEV, B.A.; STEKOL'NIKOV, I.S.; LAPITSKIY, V.I.; KHEYSTER, I.M.

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Optimization of the selection of fuels for thermal electric power plants and boiler systems in long-range planning. Izv. AN SSSR. Energ. i transp. no.4:514-524 Jl-Ag '63. (MIRA 16:11)

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DENISOV, V.I., inzh.

Transistorized frequency doubler. Avt., telem. i sviaz 5 no.1:27 Ja 161. (MIRA 14:3)

ZAKHARIN, A.G.; BRAILOV, V.P.; DENISOV, V.I.

Principal mathematical formulation of a problem concerning the choice of an efficient power distribution system and optimum alternative for the distribution of power resources. Obshch. (MIRA 16:10) energ. no.6:14-23 '63.

(Electric power) (Power resources)

DENISOV, V.I., kand.ekonom.nauk

Evaluation of power losses in the design of electrical networks. Izv.vys.ucheb.zav.; energ. 7 no. 4:7-11 Ap '64. (MIRA 17:5)

1. Energeticheskiy institut imeni G.M.Krzhizhaovskogo.

DENISOV, V.f.; BREDUN, V.K.

Device for the spraying of resin. Stek. i ker. 22 no.8:33-34 Ag 165. (MIRA 18:9)

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· ACC NR: AP7011365

SOURCE CODE: UR/0223/66/000/012/0012/0013

AUTHOR: Donisov, V. I. (Engineer)

ORG: none

TITLE: Cross-damping with pulse-phase modulation

SOURCE: Avtomatika, telemekhanika i svyaz', no. 12, 1966, 12-13

TOPIC TAGS: pulse phase modulation, computer, signal distortion, pulse shape

SUB CODE: 09

ABSTRACT: The author studies the problem of eliminating transient noise in multichannel telephony. The phenomenon is usually due to one of two causes: (1) A pulse may be "flattened" to such a degree that it will interfere with the next pulse in time. (2) A pulse may be distorted by nonstationary processes accompanying rapid changes of voltage and current. Mathematical relationships of time, useful signal, noise, and voltage of the operating relay are derived. A study is made of distinct conversations in a system of radio relay lines with pulse-phase modulation, with cross-damping from one channel to the next. Results, obtained on an M-20 computer, show that there is a sharp increase in the cross-damping due to the steepness of the trailing edge of the pulse, while the steepness of the 1/2

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the leading edge has considerably less effect. The author concludes that the edges of the pulse should be as steep as possible in order to minimize distortion of the pulse. Orig. art. has: 4 figures and 4 formulas.  $\sqrt{\text{JPRS}}$ : 40,352/

DENISOV. V.I., inzh.

At the 1960 level. Tekst.prom. 19 no.2:52-54 F '59.
(MIRA 12:5)
(Cotton spinning--Production standards)

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Working methods of a progressive reeler. Tekst.prom. 19 no.8:58-61 Ag '59. (MIRA 13:1)

1. Machal'nik otdela organizatsii truda i zarabotnoy platy khlopchatobumazhnoy Kabriki im. Oktyabr'skoy revolyutsii. (Spinning--Labor productivity)

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Hourly bonus wage system for workers of spinning and weaving factories. Tekst.prom. 22 no.4:10-13 Ap '62. (MIRA 15:6)

l. Nachalinik otdela truda i zarabotnoy platy fabriki imeni Oktybriskoy revolyutsii Moskovskogo oblastnogo soveta narodnogo khozyaystva.

(Bonus system)
(Wages--Textile workers)

DENISOV, V.I., dotsent; MILCIVANOVA, A.G., normirovshchik

Following the initiative of the brigade named after the 22d Congress and the CPSU. Tekst.prom. 22 no.11:24-27 N '62. (MIRA 15:11)

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[Mechanization of work in the Yakhroma spinning and weaving factory] Mekhanizatsiia truda na IAkhromskoi priadil'no-tkatskoi fabrike. Moskva, Gizlegprom, 1963. 32 p. (MIRA 16:9)

(Yakhroma—Textile factories)
(Textile machinery)